Title (en)

OPTICALLY ADDRESSED SPATIAL LIGHT MODULATOR AND METHOD

Title (de)

OPTISCH ADRESSIERTER RÄUMLICHER LICHTMODULATOR UND ENTSPRECHENDES VERFAHREN

Title (fr)

MODULATEUR DE LUMIERE SPATIALE A ADRESSAGE OPTIQUE ET PROCEDE ASSOCIE

Publication

EP 1989586 A2 20081112 (EN)

Application

EP 07752245 A 20070302

Priority

- US 2007005531 W 20070302
- US 77870406 P 20060302

Abstract (en)

[origin: WO2007103274A2] An optical device has an electrically insulating first barrier layer disposed over a first electrode layer, a photoconductive layer disposed over the first barrier layer, and a carrier confining layer disposed over the photoconducting layer. The carrier confining layer defines a volume throughout which a plurality of carrier traps are dispersed. Further, an electrically insulating second barrier layer is disposed over the carrier confining layer, a light blocking layer is disposed over the second barrier layer for blocking light of a selected wavelength band. A reflective layer is disposed over the light blocking layer for reflecting light within the selected wavelength band, a birefringent or dispersive layer is disposed over the reflective layer, and an optically transmissive second electrode layer is disposed over the birefringent or dispersive layer. A method is also disclosed, as are additional layers intervening between those detailed above.

IPC 8 full level

G02F 1/135 (2006.01); **G02F 1/01** (2006.01)

CPC (source: EP KR US)

G02B 27/1026 (2013.01 - EP US); **G02B 27/1033** (2013.01 - EP US); **G02B 27/145** (2013.01 - EP US); **G02B 27/149** (2013.01 - EP US); **G02F 1/00** (2013.01 - KR); **G02F 1/0126** (2013.01 - EP US); **G02F 1/13** (2013.01 - KR); **G02F 1/135** (2013.01 - EP US); **G02F 1/1354** (2013.01 - EP US); **H04N 9/3105** (2013.01 - EP US); **H04N 9/312** (2013.01 - EP US); **H04N 9/3167** (2013.01 - EP US); G02B 27/141 (2013.01 - EP US); G02F 1/133553 (2013.01 - EP US); Y10T 428/31504 (2015.04 - EP US)

Cited by

US10816855B2; US11294241B2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

WO 2007103274 A2 20070913; **WO 2007103274 A3 20081113**; AU 2007224108 A1 20070913; AU 2007224108 B2 20110407; BR PI0708720 A2 20110607; CA 2644283 A1 20070913; CA 2644283 C 20140107; CN 101421664 A 20090429; CN 101421664 B 20110831; EP 1989586 A2 20081112; EP 1989586 A4 20110803; EP 1989586 B1 20180509; HK 1130093 A1 20091218; IL 193789 A 20111229; KR 101059919 B1 20110829; KR 20080102278 A 20081124; MY 142754 A 20101231; RU 2008137378 A 20100410; RU 2438152 C2 20111227; TW 200801639 A 20080101; TW I428659 B 20140301; US 2007216985 A1 20070920; US 7440157 B2 20081021

DOCDB simple family (application)

US 2007005531 W 20070302; AU 2007224108 A 20070302; BR PI0708720 A 20070302; CA 2644283 A 20070302; CN 200780012853 A 20070302; EP 07752245 A 20070302; HK 09109873 A 20091024; IL 19378908 A 20080831; KR 20087024126 A 20070302; MY PI20083380 A 20070302; RU 2008137378 A 20070302; TW 96107105 A 20070302; US 71377307 A 20070302